PCT/GB2004/003904

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K47/48 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, EMBASE, BIOSIS C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X ENSS M -L ET AL: "Proinflammatory 1-29 cytokines trigger MUC gene expression and mucin release in the intestinal cancer cell line LS180" INFLAMMATION RESEARCH, vol. 49, no. 4, April 2000 (2000-04), pages 162-169, XP008043079 ISSN: 1023-3830 the whole document Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: 'T' later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the 'A' document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is clied to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an Inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means document published prior to the international filing date but later than the priority date claimed '&' document member of the same patent family Date of the actual completion of the international search Date of mailing of the International search report 26 May 2005 10/06/2005 Name and malling address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo nl, Dullaart, A Fax: (+31-70) 340-3016

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(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT  ategory * Citation of document, with indication, where appropriate, of the relevant passages  Relevant to claim No.				
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT  Category Citation of document, with Indication, where appropriate, of the relevant passages  Relevant to claim No.						
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.					
ABDULLA P ET AL: "GTP and Ca-2+ - dependent mucin secretion in permeabilized LS180 human colonic cancer cells: Modulation by anion substitution" FASEB JOURNAL, vol. 11, no. 3, 1997, page A516, XP008043069 & ANNUAL MEETING OF THE PROFESSIONAL RESEARCH SCIENTISTS ON EXPERIMENTAL BIOLOGY 97; NEW ORLEANS, LOUISIANA, USA; APRIL 6-9, 1997 ISSN: 0892-6638 abstract no. 2989 the whole document	1-29					
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT  Category Citation of document, with indication, where appropriate, of the relevant passages  Relevant to claim No.						
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X	YANG CHUN ZHI ET AL: "ADP-ribosylation factor 6 (ARF6) defines two insulin-regulated secretory pathways in adipocytes" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 274, no. 36, 3 September 1999 (1999-09-03), pages 25297-25300, XP002329527 ISSN: 0021-9258 abstract page 25297, right-hand column, paragraph 2	14-29				
X	CAIN C C ET AL: "MEMBERS OF THE VAMP FAMILY OF SYNAPTIC VESICLE PROTEINS ARE COMPONENTS OF GLUCOSE TRANSPORTER-CONTAINING VESICLES FROM RAT ADIPOCYTES"  JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 267, no. 17, 1992, pages 11681-11684, XP002329528 ISSN: 0021-9258 abstract page 11684, left-hand column, paragraph CONCLUSIONS - right-hand column	14-29				
X	DAVIS R J ET AL: "INSULIN-LIKE GROWTH FACTOR I AND EPIDERMAL GROWTH FACTOR REGULATE THE EXPRESSION OF TRANSFERRIN RECEPTORS AT THE CELL SURFACE BY DISTINCT MECHANISMS"  JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 262, no. 27, 1987, pages 13126-13134, XP002329529  ISSN: 0021-9258  abstract page 13128, left-hand column, line 6 - right-hand column, line 2 figures 1-4	14-29				

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# INTERNATIONAL SEARCH REPORT Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet) This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: 1-13, 28 and 29 in part Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210 Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) This International Searching Authority found multiple inventions in this international application, as follows: see additional sheet As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.: 1-29 No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 28-29 in part, and 1-13

Method of designing a non-cytotoxic toxin as defined by these claims

2. claims: 28-29 in part, and 14-27

Method of identifying an agonist as defined in these claims.

3. claims: 30-43 and 48-57 in part

Pharmaceutical composition and its use (in a method of treatment) as defined in these claims, in which the TM of the agent is IL-13

4. claims: 30-43 and 48-57 in part

Pharmaceutical composition and its use (in a method of treatment) as defined in these claims, in which the TM of the agent is insulin

5. claims: 30-43 and 48-57 in part

Pharmaceutical composition and its use (in a method of treatment) as defined in these claims, in which the TM of the agent is mast cell degranulating peptide.

6. claims: 30-43 and 48-57 in part

Pharmaceutical composition and its use (in a method of treatment) as defined in these claims, in which the TM of the agent is IL-4

7. claims: 30-43 and 48-57 in part

Pharmaceutical composition and its use (in a method of treatment) as defined in these claims, in which the TM of the agent is TNF alpha

8. claims: 30-43 and 48-57 in part

Pharmaceutical composition and its use (in a method of treatment) as defined in these claims, in which the TM of the agent is EGF.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

9. claims: 44-45

DNA construct as defined in claim 44, and its use in the preparation of a chimeric agent as defined in claim 45  $\,$ 

10. claims: 46-47

Process of preparing a conjugate as defined in these claims, i.e., by conjugation rather than by expression of a sibgle DNA construct.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 1-13, 28 and 29 in part

Claims 1-13, 28 and 29 encompass a genus of compounds defined only by their function wherein the relationship between the structural features of the members of the genus and said function have not been defined. In the absence of such a relationship either disclosed in the as-filed application or which would have been recognized based upon information readily available to one skilled in the art, the skilled artisan would not know how to make and use compounds that lack structural definition. The fact that one could have assayed a compound of interest using the claimed assays does not overcome this defect since one would have no knowledge beforehand as to whether or not any given compound (other than those that might be particularly disclosed in an application) would fall within the scope of what is claimed. It would require undue experimentation (be an undue burden) to randomly screen undefined compounds for the claimed activity. Therefore, the search for claims 1-13, 28 and 29 has been limited to the examples (Art. 5 and Art. 6 PCT), insofar as relating to the first invention.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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